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KYU LEE WAS SUMMER COMPUTER SCIENTIST
AT FERMI LABORATORY IN BATIVIA, ILL.

MISSOULA--

Dr. Kyu Y. Lee, an assistant professor of computer science at the University of Montana, recently returned to Missoula following a three-month stint as a visiting computer scientist at the Fermi National Accelerator Laboratory (FERMILAB), Batavia, Ill.

While he was in Batavia, Lee and Dr. M. Awschalom, head of the FERMILAB Research Services Department and an internationally known radiation physicist, collaborated on Monte Carlo calculations for muon shielding problems. A Monte Carlo calculation is a mathematical modeling technique very frequently used in sciences. Lee and Awschalom wrote a computer program, MUSHLD, which is expected to be used extensively by the designers of the next generation of high energy accelerators.

"Muon shielding has become a main concern of radiation physicists involved in high energy (multi-billion electron volt) accelerators," Lee said. "A muon, formerly misidentified as a meson, is an electron-like particle but is about 200 times heavier. Unlike other particles, such as protons or pions, muons do not interact strongly with matter, and therefor can escape layers of conventional shielding materials very easily, thus creating a radiation hazard."

While at Batavia, Lee also was one of three keynote speakers in the workshop on radiation shielding design sponsored by the FERMILAB. The participants in the workshop were health physicists from throughout the world.

Lee said FERMILAB has the largest high energy accelerator in the world and scientists there have done considerable work on shielding design.

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